

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 08/03/04

Date Received: 07/02/04

Project: Metro Self Monitor, PO# M104497, F&BI 407023

Date Extracted: 07/30/04

Date Analyzed: 07/30/04

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M104497 407023-01	0.42	0.58	0.55	0.12
Method Blank	<0.05	<0.05	<0.10	<0.05

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### QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 407070-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.36	0.35	3	0-20
Copper	mg/L (ppm)	0.39	0.37	5	0-20
Nickel	mg/L (ppm)	0.40	0.36	11	0-20
Zinc	mg/L (ppm)	0.05	<0.05	nm	0-20

Laboratory Code: 407070-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	5	0.36	86	87	50-150	1
Copper	mg/L (ppm)	5	0.39	88	87	50-150	1
Nickel	mg/L (ppm)	10	0.40	87	87	50-150	0
Zinc	mg/L (ppm)	5	0.05	91	95	50-150	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	5	99	99	70-130	0
Copper	mg/L (ppm)	5	98	99	70-130	1
Nickel	mg/L (ppm)	10	98	99	70-130	1
Zinc	mg/L (ppm)	5	101	101	70-130	0

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
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FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

August 3, 2004

**DUPLICATE COPY**

**INVOICE # 04ACU0803-4**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M104497, F&BI 407023 - Results of testing  
requested by Gerry Thompson for material submitted on July 2, 2004.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	\$ 80.00
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Amount Due .....	\$ 80.00
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FEDERAL TAX ID # (b) (6)

407023

## SAMPLE CHAIN OF CUSTODY

CM 07/02/04

BI

Send Report To

G. Thompson

Company

Alaskan Copper Works

Address

628 S. Howard ST

City, State, ZIP

Seattle WA 98134

Phone #

206-382-8379

Fax #

206-382-4309

SAMPLERS (Signature)

PROJECT NAME/NO.

Metro Self Monitor

PO #

M104497

REMARKS

Page # of

## TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

## SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS					
M104497	01	7/2/04	10:00	A20	1											

Friedman & Bruya, Inc.  
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

## SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

## PRINT NAME

G. Thompson

Nhan Phan

## COMPANY

ACW

Friedman &amp; Bruya

## DATE

7/2/04

7/2/04

## TIME

10:42am

1



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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August 3, 2004

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

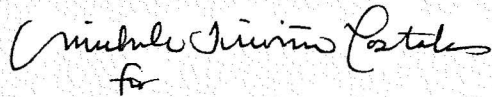
Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 2, 2004 from the Metro Self Monitor, PO# M104497, F&BI 407023 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

A handwritten signature in cursive script, appearing to read "Charlene Morrow", with a small "for" written below it.

Charlene Morrow  
Chemist

Enclosures  
ACU0803R.DOC